



#24

#24

Sheet 1 of 1

Form PTO-1449
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

74451.P024C

SERIAL NO.

08/941,466

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT

Zandi, et al.

FILING DATE

9/20/94

GROUP

2723

9/30/97

2640

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TJ	5347479	9/13/94	Miyazaki	708	400	12/22/92
TJ	5412741	5/2/95	Shapiro	382	232	1/24/93
TJ	5453945	9/26/95	Tucker, et al.	708	400	1/24/94
TJ	5497435	3/5/96	Berger	382	249	2/22/93
TJ	5534925	7/9/96	Zhong	382	240	5/2/94
TJ	5537493	7/16/96	Wildinson	382	240	6/29/94
TJ	5546477	8/13/96	Knowles, et al.	382	242	3/30/93
TJ	5563890	10/8/96	Shapiro	382	239	12/17/93
TJ	5602589	2/11/97	Vishwanath, et al.	348	398	8/19/94

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

Timothy M. Johnson

DATE CONSIDERED

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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT Zandi, et al.			
				FILING DATE 9/20/94		GROUP 2723	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TJ		4 9 8 5 9 2 7	1/15/91	Norwood et al.	382	149	
TJ		4 9 8 7 4 8 0	1/22/91	Lippman et al.	348	396	
TJ		5 0 0 0 1 8 3	3/19/91	Bonnefous	600	437	
TJ		5 0 0 1 7 6 4	3/19/91	Wood et al.	382	145	
TJ		5 0 1 4 1 3 4	5/7/91	Lawton et al.	358	261.3	
TJ		5 0 1 8 2 1 0	5/21/91	Merryman et al.	382	145	
TJ		5 0 6 8 9 1 1	11/26/91	Resnikoff et al.	382	240	
TJ		5 0 7 3 9 6 4	12/17/91	Resnikoff	382	277	
TJ		5 0 8 1 6 4 5	1/14/92	Resnikoff et al.	375	146	
TJ		5 0 9 5 4 4 7	3/10/92	Manns et al.	382	144	
TJ		5 1 0 1 4 4 6	3/31/92	Resnikoff et al.	382	248	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
TJ		9 4 2 3 3 8 5	10/13/94	PCT	606F	15/1832	
TJ		0 6 2 2 7 4 1	3/30/94	EPO	606F	15/1832	
TJ		2 2 8 4 1 2 1	5/24/95	UK	1404N	7126	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
TJ		"1977 IEEE International Conference on Acoustics, Speech & Signal Processing", "Application of Quadrature Mirror Filters to Split Band Voice Coding Schemes", D. Esteban and C. Galand, p. 191-195.					
TJ		Martin Vetterli, "Filter Banks Allowing Perfect Reconstruction", Signal Processing 10 (1986), p. 219-244.					
TJ		R. E. Crochiere, S. A. Webber, J. L. Flanagan, "Digital Coding of Speech in Sub- bands", 1976, American Telephone and Telegraph Company, The Bell System Technical Journal, Vol. 55, No. 8, October 1976, p. 1069-1085.					
EXAMINER Timothy M. Johnson				DATE CONSIDERED 4/11/00			
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TJ	5 1 0 3 3 0 6	4/7/92	Weiman et al.	348	400	
TJ	5 1 2 1 1 9 1	6/9/92	Cassereau et al.	348	443	
TJ	5 1 2 4 9 3 0	6/23/92	Nicolas et al.	702	76	
TJ	5 1 2 8 7 5 7	7/7/92	Citta et al.	348	384	
TJ	5 1 4 8 4 9 8	9/15/92	Resnikoff et al.	382	248	
TJ	5 1 5 2 9 5 3	10/6/92	Ackermann	266	252	
TJ	5 1 5 6 9 4 3	10/20/92	Whitney	430	321	
TJ	5 1 7 3 8 8 0	12/22/92	Duren et al.	367	73	
TJ	5 4 2 0 8 9 1	5/30/95	Akansu	375	360	3/18/93
TJ	3 5 8 0 6 5 5	5/25/71	Leith et al.	359	28	
TJ	3 9 5 0 1 0 3	4/13/76	Schmidt-Weinmar	356	345	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
TJ	9 6 0 9 7 1 8	3/28/96	PCT	H04N	1/41		
TJ	9 5 1 9 6 8 3	7/20/95	PCT	H04N	7/26		
TJ	0 7 0 1 3 7 5	3/13/96	EPO	H04N	7/26		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

TJ	John W. Woods and Sean D. O'Neil, "Sub-band Coding of Images", Proceedings ICASSP 86, Tokyo, Japan, April 1986, p. 1005-1008.
TJ	John W. Woods, "Subband Coding of Images", IEEE Transactions on Acoustics, Speech, and Signal Processing, Vol. ASSP-34, No. 5, October 1986, p. 1278-1288.
TJ	"Proceedings: ICASSP 87", 1987 International Conference on Acoustics, Speech, and Signal Processing, April 6, 7, 8, 9, 1987, Volume 3 of 4, "Sub-band Coding of Images Using Predictive Vector Quantization", P. H. Westernick, J. Biemond and D. E. Boekee, p. 1378-1381.

EXAMINER

Timothy M. Johnson

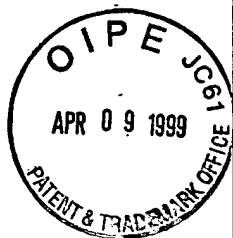
DATE CONSIDERED

4/11/00

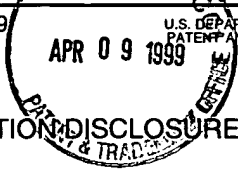
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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT Zandi, et al.			
				FILING DATE 9/20/94		GROUP 2723	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TJ		4 8 2 9 3 7 8	5/9/89	Legall	348	398	
TJ		4 8 3 7 5 1 7	6/6/89	Barber	324	339	
TJ		4 8 6 4 3 9 8	9/5/89	Avis et al.	348	443	
TJ		4 8 9 7 7 1 7	1/30/90	Hamilton et al.	348	404	
TJ		4 9 0 4 0 7 3	2/27/90	Lawton et al.	359	851	
TJ		4 9 2 9 2 2 3	5/29/90	Walsh	493	56	
TJ		4 9 3 6 6 6 5	6/26/90	Whitney	359	565	
TJ		4 9 7 4 1 8 7	11/27/90	Lawton	208	420	
TJ		4 9 8 2 2 8 3	1/1/91	Acampora	348	410	
TJ		4 3 9 3 4 5 6	7/12/83	Marshall, Jr.	708	316	
TJ		4 5 6 9 0 7 5	2/4/86	Nussbaumer	704	203	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
TJ		2 2 1 1 6 9 1	7/5/89	UK	H04N	7/133	
TJ		0 5 9 3 0 1 3	4/20/94	EPO	H04N	7/13	
TJ		0 5 1 0 9 3 3	10/28/92	EPO	H04N	1/41	
TJ		8 8 1 0 0 4 9	12/15/88	PCT	H04N	7/133	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
TJ		"Proceedings: ICASSP 87", 1987 International Conference on Acoustics, Speech, and Signal Processing, April 6, 7, 8, 9, 1987, Volume 4 of 4, "Application of Quadrature Mirror Filtering to the Coding of Monochrome and Color Images", H. Gharavi and A. Tabatabai, p. 2384-2387.					
TJ		International Search Report for Application No.: GB 9518298.6, dated 8 November 1995.					
EXAMINER Timothy M. Johnson				DATE CONSIDERED 4/11/00			
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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT Zandi, et al.			
				FILING DATE 9/20/94		GROUP 2723	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TJ		4 6 5 2 8 8 1	3/24/87	Lewis	342	160	
TJ		4 6 7 4 1 2 5	6/16/87	Carlson et al.	382	303	
TJ		4 7 8 5 3 4 8	11/15/88	Fonsalas et al.	348	425	
TJ		4 7 9 9 1 7 9	1/17/89	Masson et al.	208	813	
TJ		4 8 1 5 0 2 3	3/21/89	Arbeiter	708	301	
TJ		4 8 3 9 8 8 9	6/13/89	Gockler	370	210	
TJ		4 8 6 8 8 6 8	9/19/89	Yazu et al.	204	205	
TJ		4 9 1 8 5 2 4	4/17/90	Ansari et al.	348	398	
TJ		5 0 4 9 9 9 2	9/17/91	Citta et al.	348	443	
TJ		5 0 4 9 9 9 3	9/17/91	Legall et al.	348	448	
TJ		5 0 7 2 3 0 8	12/10/91	Lin et al.	358	426	
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EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
TJ		5	0	9	7	3	3	1	3/17/92	Chen et al.	348	398	
TJ		5	1	0	1	2	8	0	3/31/92	Moronaga et al.	358	426	
TJ		5	1	2	8	7	9	1	7/7/92	Legall et al.	348	469	
TJ		5	1	8	2	6	4	5	1/26/93	Breeuwer et al.	348	458	
TJ		5	3	1	5	6	7	0	5/24/94	Shapiro	382	240	
TJ		5	3	2	1	7	7	6	6/14/94	Shapiro	382	240	
TJ		5	4	1	2	7	4	1	5/2/95	Shapiro	382	232	1/22/93
TJ		4	1	5	5	0	9	7	5/15/79	Lux	348	420	
TJ		4	1	9	0	8	6	1	2/26/80	Lux	348	420	
TJ		5	2	6	2	9	5	8	11/16/93	Chui et al.	702	75	
TJ		5	4	9	5	2	9	2	2/27/96	Zhang et al.	348	407	9/3/93
FOREIGN PATENT DOCUMENTS													
		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
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APPLICANT

Ahmad Zandi, et al.

FILING DATE

6/30/95

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2721 2723

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

TJ		Cha Keon Cheong, Kiyoharu Aizawa, Takahiro Saito and Mitsutoshi Hatori; "Subband Image Coding with Biorthogonal Wavelets"; 7/92; Pages 871-881
TJ		A.S. Lewis and G. Knowles; "Image Compression Using the 2-D Wavelet Transform"; 11/15/90; Pages244-250

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